APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

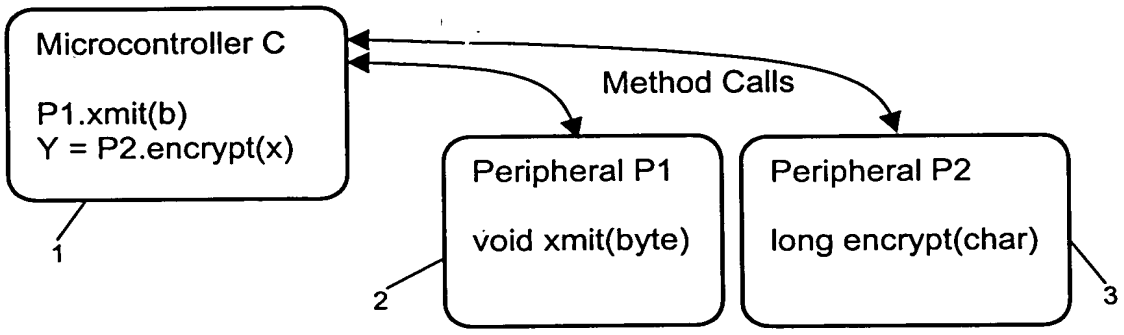

FIG. 1A
PRIOR ART

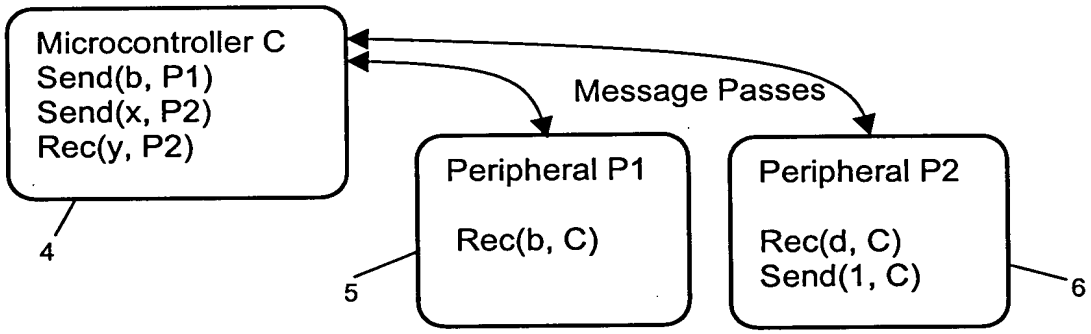

FIG. 1B
PRIOR ART

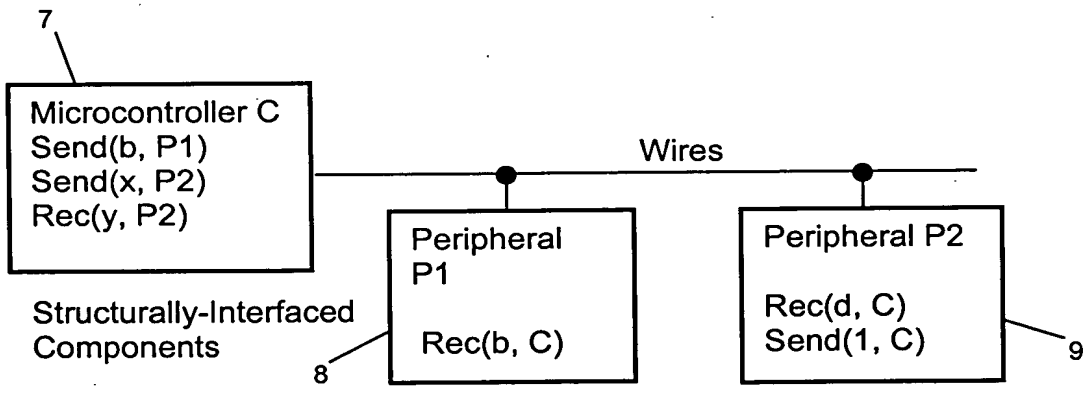

FIG. 1C
PRIOR ART

PROVED O.G. FIG.
BY CLASS SUBCLASS

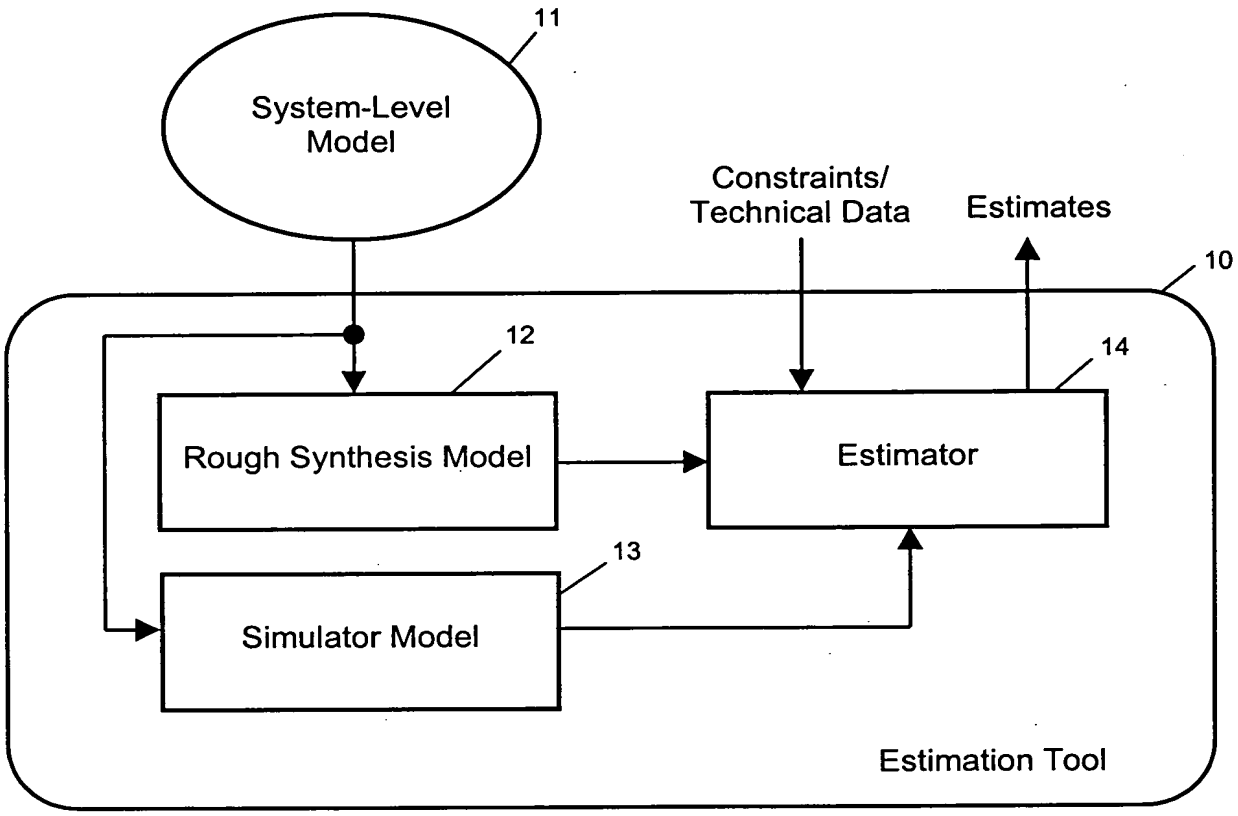

FIG. 2
PRIOR ART

APPROVED O.G. FIG.
CLASS SUBCLASS

Buffer Size (bytes)	Area (transistors)	Toggle-Count
2	4552	203
4	7360	232
8	1576	238
16	22600	249

FIG. 3

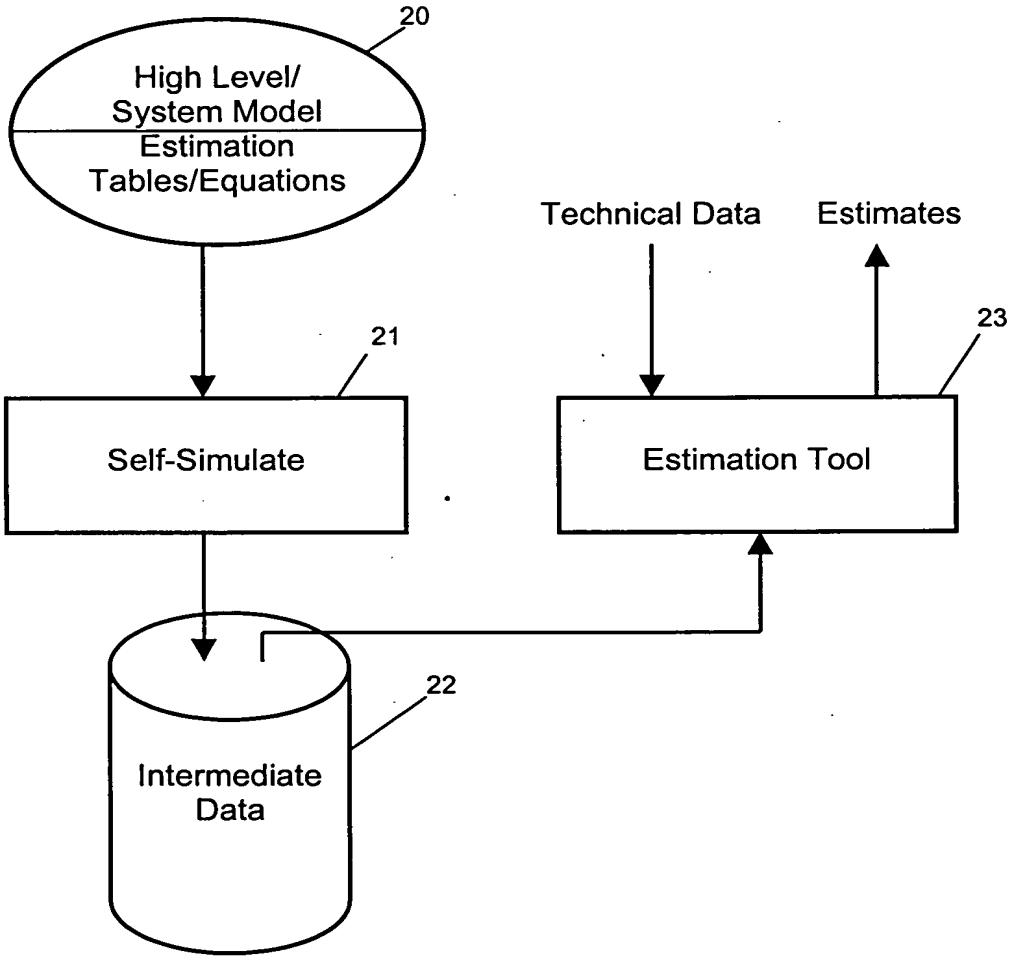

FIG. 4

```
class UART {
        unsigned toggle_count = 0;
        public Reset() {
                data_txbuf = 0, data_rxbuf = 0;
                toggle_count += TOGGLE_TABLE[RESET];
        }
        public EnableTx() {
                for( int i = 0; i < 8; i++ )
                        s_out = (data_txbuf >> i) & 0x01;
                toggle_count += TOGGLE_TABLE[ENABLETX];
        }
        public WriteTxBuf(unsigned char x) {
                data_txbuf = x;
                toggle_count += TOGGLE_TABLE[WRITEBUF];
        }
        public ReadRxBuf(unsigned & x) {
        // implementation of reading character from buffer
                toggle_count += TOGGLE_TABLE[READBUF];
        }
};
```

FIG. 5

APPROVED O.G. FIG.
CLASS SUBCLASS

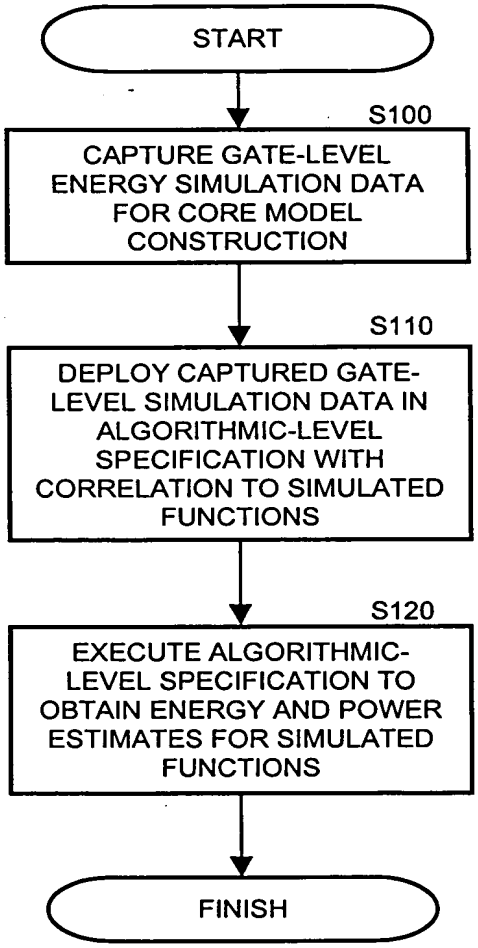

FIG. 6

FIG.
CLASS SUBCLASS

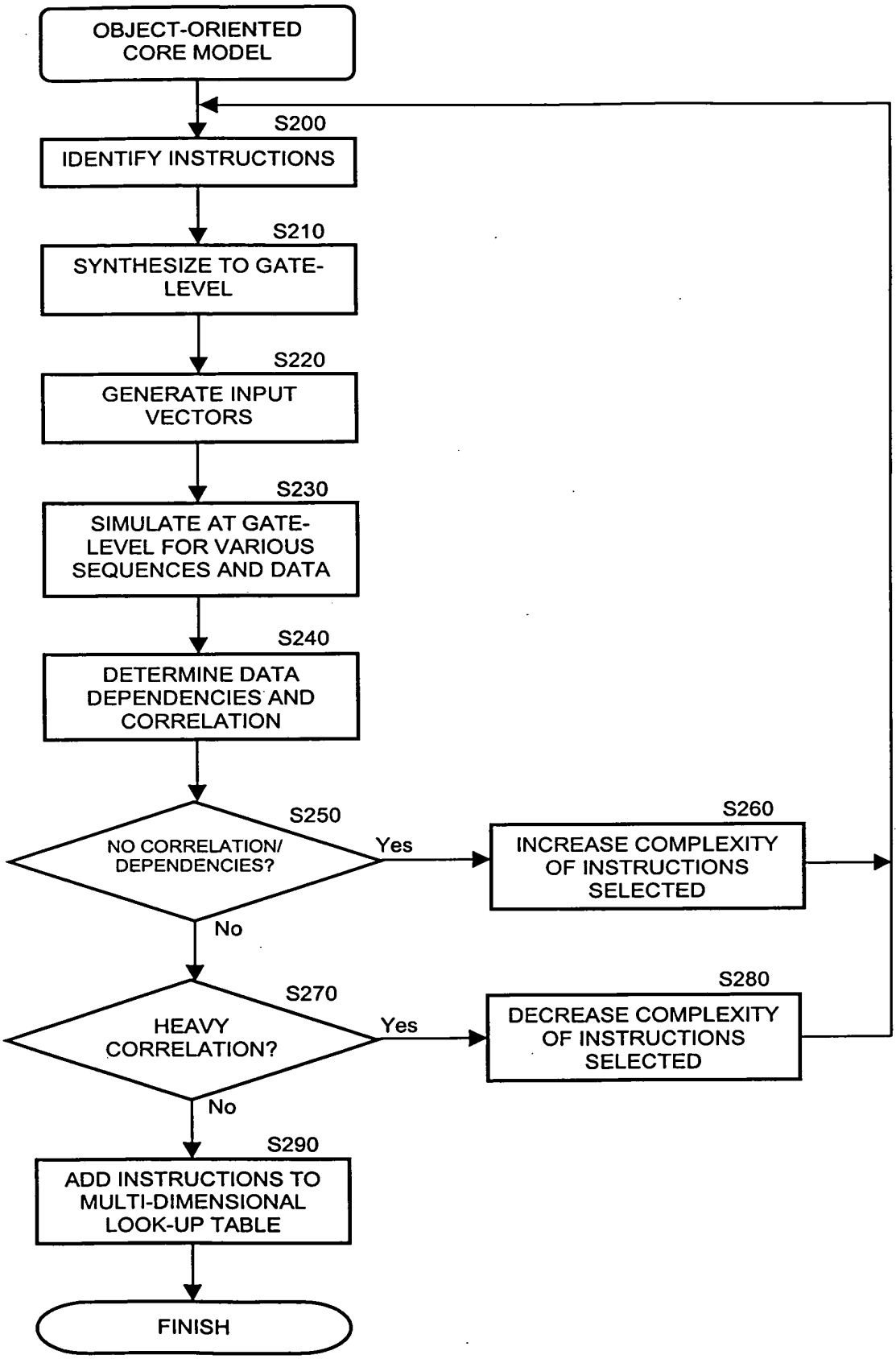

FIG. 7

APPROVED O.G. FIG.
CLASS SUBCLASS

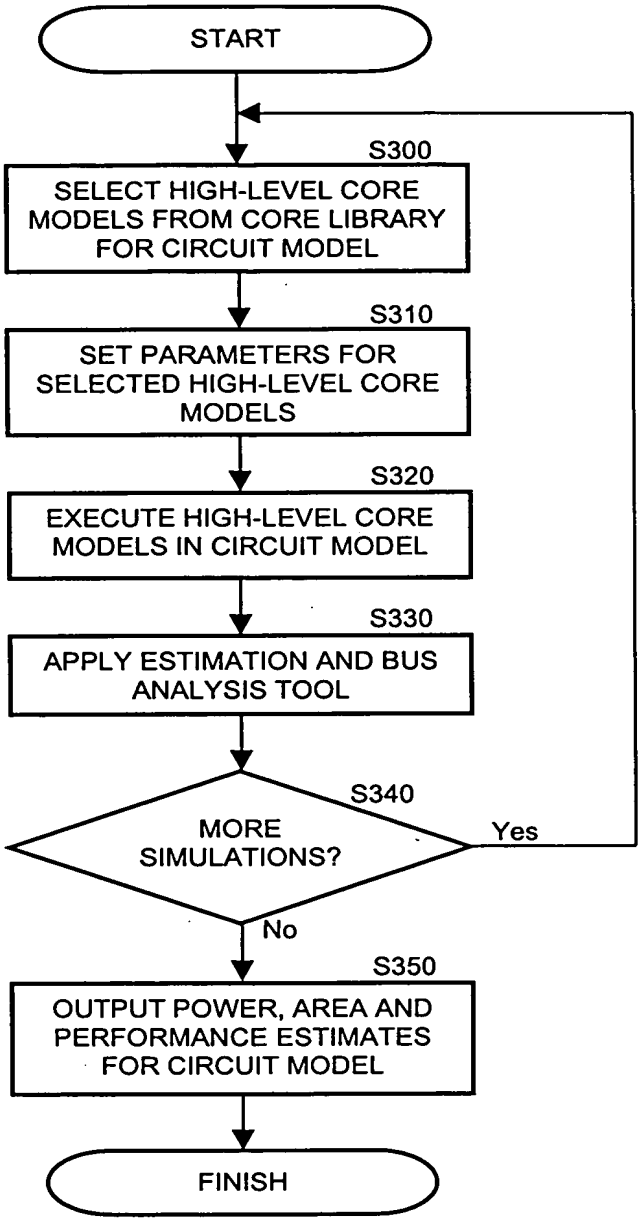

FIG. 8

APPROVED O.G. FIG

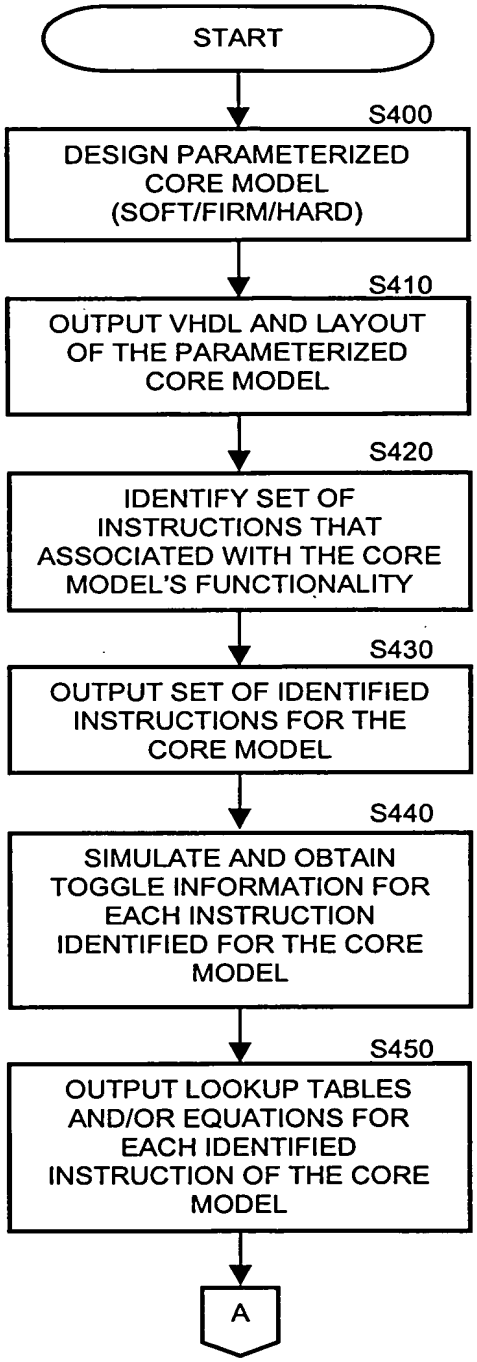

FIG. 9A

APPROVED O.G. FIG.
CLASS SUBCLASS

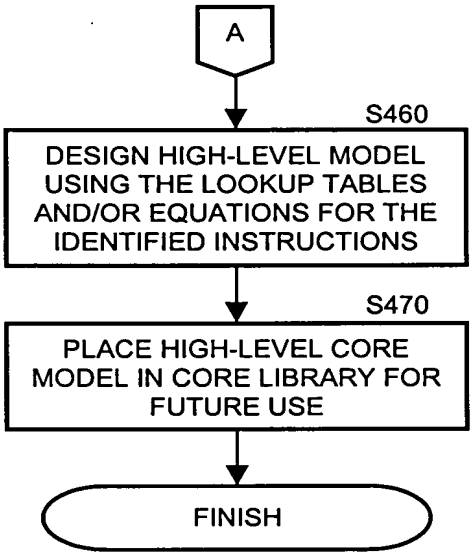

FIG. 9B

APPROVED O.G. FIG.

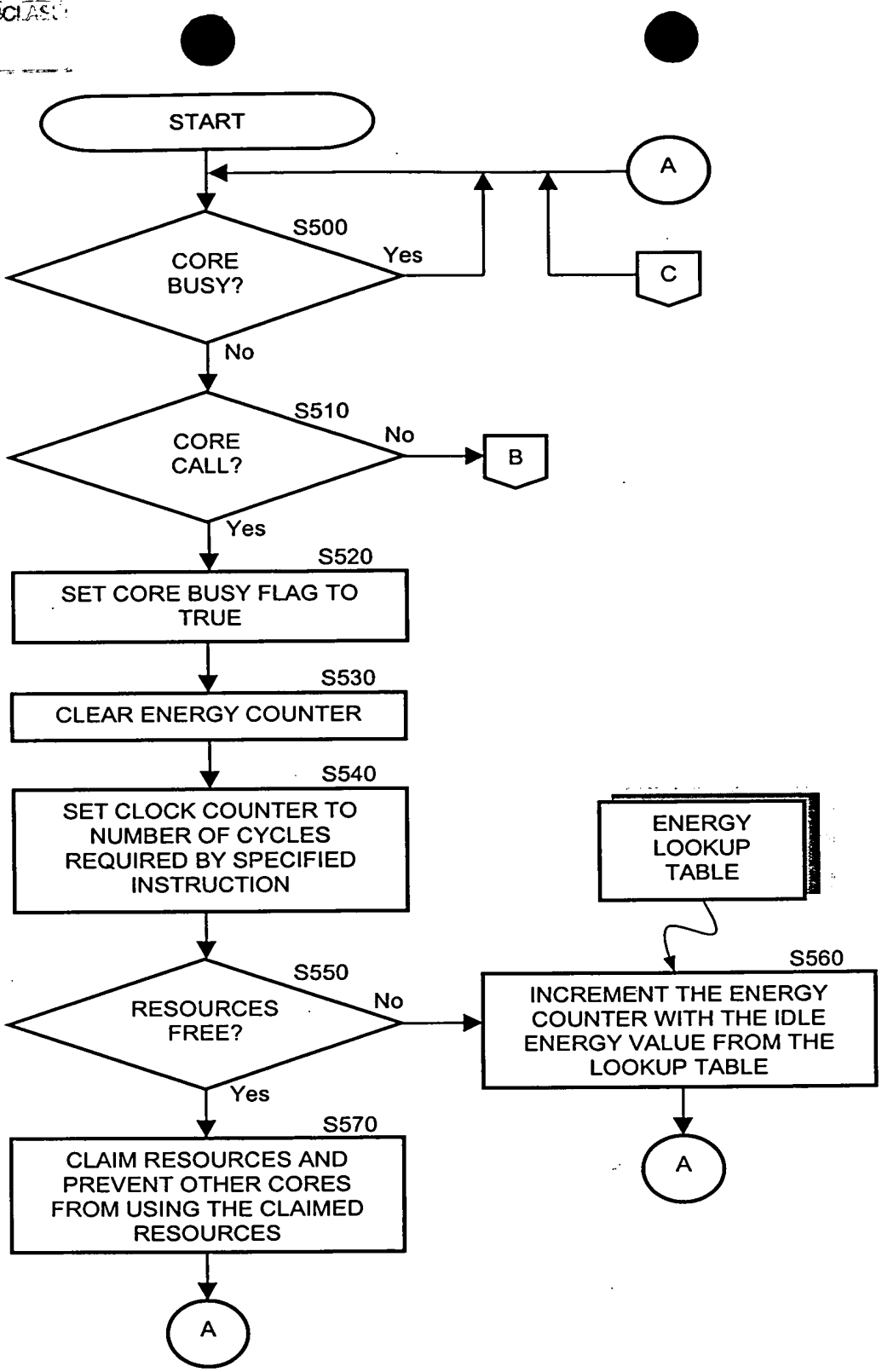

FIG. 10A

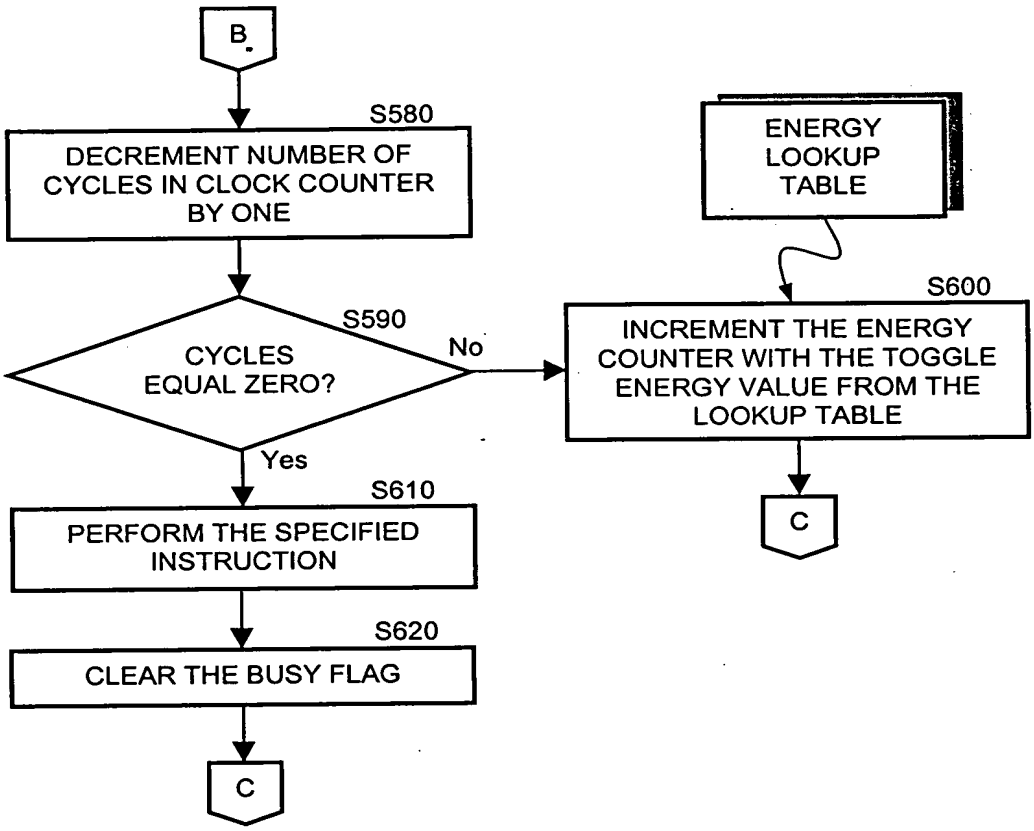
B
S580
DECREMENT NUMBER OF CYCLES IN CLOCK COUNTER BY ONE
S590
CYCLES EQUAL ZERO?
No
Yes
S610
PERFORM THE SPECIFIED INSTRUCTION
S620
CLEAR THE BUSY FLAG
C
ENERGY LOOKUP TABLE
S600
INCREMENT THE ENERGY COUNTER WITH THE TOGGLE ENERGY VALUE FROM THE LOOKUP TABLE
C

FIG. 10B

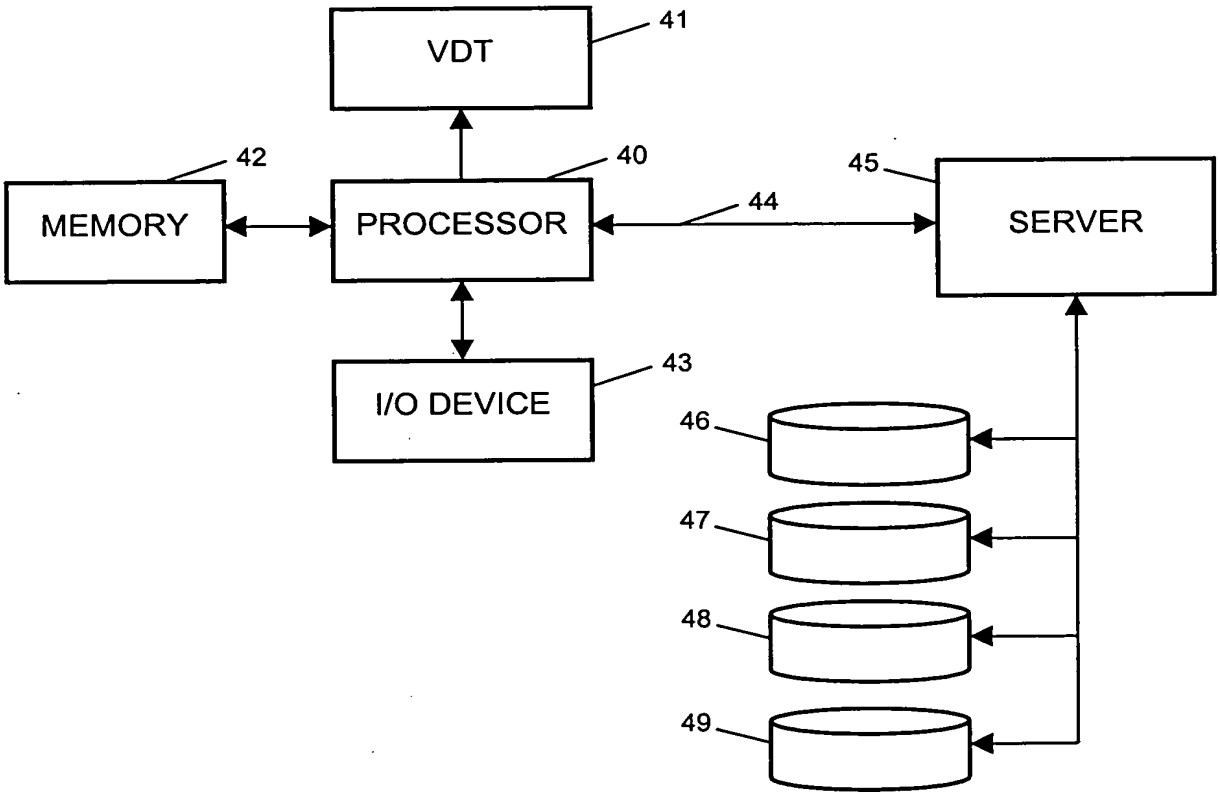
VDT
41
42
40
45
MEMORY
PROCESSOR
44
SERVER
I/O DEVICE
43
46
47
48
49

FIG. 11

APPROVED O.G. FIG.
BY
DRAFTSMAN

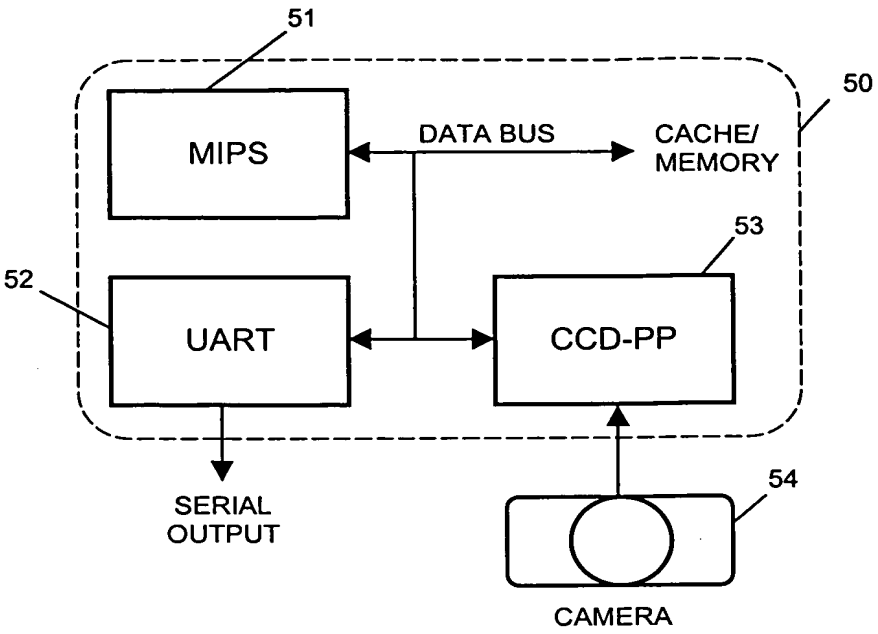

FIG. 12

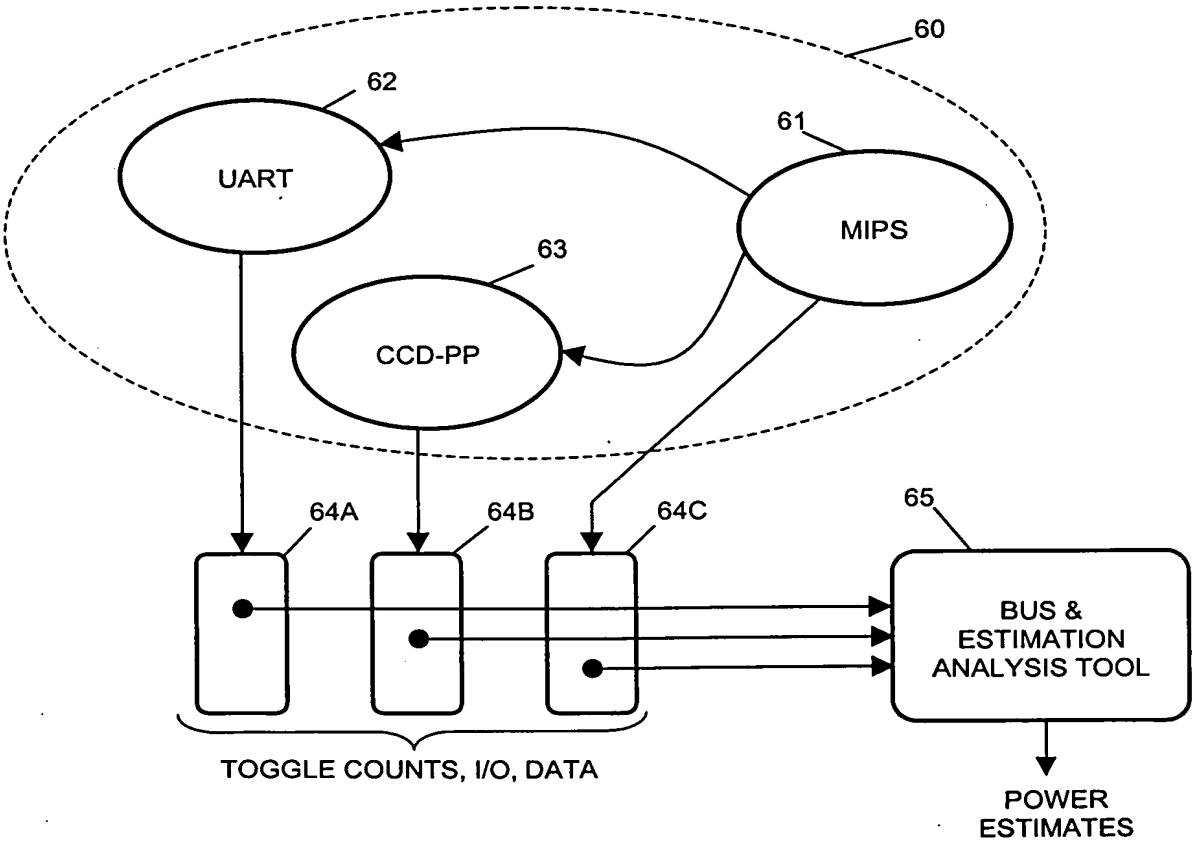

FIG. 13